

Model A series

General Stationary Surface Probes

Model A series probes are general-purpose temperature sensors designed to measure the temperatures of stationary surfaces. Specific components may be combined to customize products for the needs of a customer's specific application.

モデルAシリーズは、静止表面の温度測定に適した汎用的な温度センサです。各パーツの仕様を組み合わせる事により、お客様の用途に合わせてカスタマイズする事が出来ます。

A模式系列
A模式系列产品是适用于静止表面温度测试的通用型温度感应器。通过组合各个规格的组件，可以按照客户的用途进行个性选配。

Typical probes of A series

Type K Model A-131K-00-1-TC1-ANP
Type E Model A-131E-00-1-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model A-231K-00-1-TC1-ANP
Type E Model A-231E-00-1-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model A-233K-01-1-TC1-ANP
Type E Model A-233E-01-1-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model A-241K-01-1-TC1-ANP
Type E Model A-241E-01-1-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-50~800°C	±2.5°C (at 100°C surface)	1.5 s	A

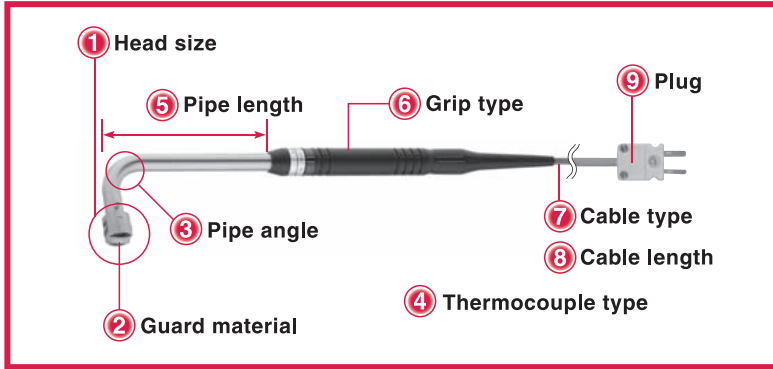
Type K Model A-314K-00-1-TC1-ANP
Type E Model A-314E-00-1-TC1-ANP

Temp. range	Tolerance	Response time	Durability
-50~300°C	±2.5°C (at 100°C surface)	1.5 s	A

Type K Model A-231K-01-0-TC1-W
Type E Model A-231E-01-0-TC1-W

Temp. range	Tolerance	Response time	Durability
-50~500°C	±2.5°C (at 100°C surface)	1.5 s	A

How to order of A series



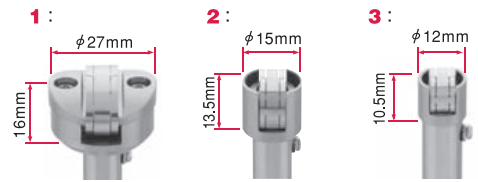
A-233K-01-1-TC1-ANP



① Head size	1 : $\phi 27\text{mm}$ 2 : $\phi 15\text{mm}$ 3 : $\phi 12\text{mm}$
② Guard material (Max. temp.)	1 : Teflon (300°C) 2 : Polyimide (400°C) 3 : Stainless (500°C) 4 : Stainless for high temp. (800°C)*1 5 : Teflon (200°C) (Contact plate is coated by teflon.) 6 : Polyimide (300°C) (Contact plate is coated by polyimide.) 7 : Without guard (500°C) (Only A-17*)
③ Pipe angle	1 : Straight 2 : 45 degrees 3 : 90 degrees 4 : 90 degrees (elbow) 5 : 45 degrees**2 6 : 90 degrees**2 7 : 90 degrees (elbow) **2
④ Thermocouple type	K : Chromel-Alumel E : Chromel-Constantan
⑤ Pipe length	00 : 30mm*1,*3 01 : 100mm 02 : 200mm 10 : 1000mm
⑥ Grip type	0 : No grip (For fixed-position measurement) 1 : Standard grip (For handheld measurement)
⑦ Cable type (See page 5)	TC
⑧ Cable length	1 : 1m 1.5 : 1.5m 2 : 2m 2.5 : 2.5m
⑨ Plug (See page 4)	ANP ASP W

① Head size

You can choose head size as below.



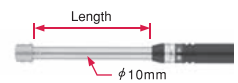
③ Pipe angle

You can choose pipe angle as below.

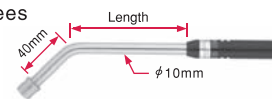
	1	
	2	5
	3	6
	4	7

⑤ Pipe length

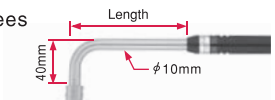
Straight



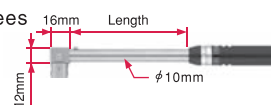
45 degrees



90 degrees



90 degrees (elbow)



⑥ Grip type

No grip	For device, system, auto-machines, mechanical system etc
Standard grip	For handheld measurement

Specifications

Tolerance	$\pm 2.5^\circ\text{C}$ (at 100°C surface)
Response time	1.5 s 3.5 s in the case of coated contact plate (A-*5*, A-*6*)
Durability rank	A (More than 75,000 contacts)

*1 Not manufacturable (A-*4* \blacksquare -00-0)

*2 Contact plate direction of right angle.

*3 Not manufacturable (A-*2 \blacksquare -00-0, A-*3 \blacksquare -00-0, A-*4 \blacksquare -00-0, A-*5 \blacksquare -00-0, A-*6 \blacksquare -00-0, A-*7 \blacksquare -00-0)